## **CLAIMS**

- 1. A coolant, comprising:
- a water-containing base material; and
- a rust-preventive additive that functions to keep an electric conductivity of said coolant at a low level and to maintain a hydrogen ion exponent of said coolant in a substantially neutral level.
- 2. A coolant in accordance with claim 1, wherein the base material is a solution mixture containing a glycol.
  - 3. A coolant in accordance with either one of claims 1 and 2, wherein the rust-preventive additive includes at least one of an alkalescent additive and an acidulous additive.

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4. A coolant in accordance with either one of claims 1 and 2, wherein the rust-preventive additive includes an alkaline additive and an acidic additive.

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5. A coolant in accordance with claim 4, wherein the alkaline additive is an ethanolamine series.

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6. A coolant in accordance with claim 5, wherein the ethanolamine series includes triethanolamine, diethanolamine, and monoethanolamine.

7. A coolant in accordance with any one of claims 4 to 6, wherein the acidic additive is selected out of the group consisting of triazole compounds, phosphoric acid compounds, and organophosphoric acid compounds.

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- 8. A coolant in accordance with any one of claims 1 to 7, wherein the rust-preventive additive causes said coolant to have a hydrogen ion exponent of about 6 to 9.
- 9. A coolant in accordance with any one of claims 1 to 8, wherein the rust-preventive additive causes said coolant to have a low electric conductivity of less than about  $100~\mu\text{S/cm}$ .
- 10. A coolant in accordance with any one of claims 1 to 9, wherein the rust-preventive additive especially has rust-preventive performance against aluminum material.
  - 11. A coolant in accordance with claim 1, wherein the rust-preventive additive is a nonionic series substance.

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12. A coolant in accordance with claim 11, wherein the nonionic series substance includes at least one of a saccharide and a nonionic surfactant.

- 13. A coolant in accordance with either one of claims 11 and 12, said coolant is decontaminated by a coolant decontamination system using either one of an ion exchange resin and a chelating resin.
- 14. A coolant in accordance with any one of claims 1 to 13, said coolant has undergone deoxidization.
  - 15. A method of enclosing a coolant in accordance with any one of claims 1 to 13 in a cooling circuit for a stack of fuel cells, said method comprising the steps of:

deoxidizing said coolant; and

enclosing said deoxidized coolant with an inert gas in said cooling circuit.

16. A cooling system for a stack of fuel cells, said cooling systemcomprising:

a coolant in accordance with any one of claims 1 to 13; and a cooling circuit in which said coolant and an inert gas are enclosed.

17. A method of decontaminating a coolant, said method comprising the steps of:

preparing a water-containing base material;

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preparing a rust-preventive additive that functions to keep an electric conductivity of said coolant at a low level and to maintain a hydrogen ion exponent of said coolant in a substantially neutral level; and

removing deteriorating substances from a solution mixture of the base material and the rust-preventive additive with either one of an ion exchange resin and a chelating resin.